AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Original) A compound of formula (I) or a pharmaceutically acceptable salt thereof:

wherein,

 R_1 is aryl, heteroaryl, acrylaryl, acrylheteroaryl, heterocycloalkenyl, or carbocyclo, which is optionally substituted with one or more substituents selected from the group consisting of C_{1-5} alkyl, hydroxy, C_{1-5} alkoxy, halogen, trifluoromethyl, nitro and amino;

 R_2 , R_3 , R_4 , R_5 , R_6 , R_7 , R_8 , R_9 , R_{10} and R_{11} are each independently hydrogen, hydroxy, halogen, nitro, C_{1-5} alkyl or alkoxy, R_6 and R_{11} being optionally fused together to form a 4 to 8-membered ring;

m and n are each independently an integer ranging from 0 to 4; and X is CH₂, O or S.

2. (Currently amended) The compound of claim 1, wherein R₁ is unsubstituted or substituted phenyl, pyridine, pyrazine, quinoline, isoquinoline, quinazoline, quinoxaline,

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pyrazole, imidazole, triazole, oxazole, thiazole, oxadiazole, thiadiazole, benzothiazole, benzoxazole, chromone, quinolone, cinnamic or quinoline acryl.

3. (currently amended): The compound of claim 2, which is selected from the group consisting of:

quinoline-3-carboxylic acid [2-(2-4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

quinoline-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

isoquinoline-3-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

quinoline-8-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

isoquinoline-1-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-

isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

quinoline-4-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-

isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

4-methoxy-quinoline-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-

1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

quinoxaline-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-

isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

pyridine-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-

isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

N-[2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-

2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-nicotinamide;

 $N-[2-(2-\{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl\}-$

2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-isonicotinamide;

pyraizine-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-

isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

 $N-[2-(2-\{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl\}-$

2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-benzamide;

naphthalene-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-

isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

N-[2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-

2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-2-fluoro-benzamide;

 $N-[2-(2-\{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl\}-$

2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-3-fluoro-benzamide;

 $N-[2-(2-\{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl\}-$

2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-4-fluoro-benzamide;

 $N-[2-(2-4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}$

2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-3,4-difluoro-benzamide;

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thiophene-3-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide; furan-3-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

4-oxo-4H-chromene-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

6-methyl-4-oxo-4H-chromene-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

5-hydroxy-4-oxo-4H-chromene-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

5-methoxy-4-oxo-4H-chromene-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

6-fluoro-4-oxo-4H-chromene-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

6-bromo-4-oxo-4H-chromene-2-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

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cinoline-4-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

4-oxo-4H-chromene-3-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-amide;

quinoline-3-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinoline-3-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinoline-3-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinoline-3-carboxylic acid [2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinoline-3-carboxylic acid-N-(2-[-(2-(4-(2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinoline-3-carboxylic acid-N-(2-[-(2-(4-

N-[2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}-2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-3-phenyl-acrylamide;

N-[2-(2-{4-[2-(6,7-dimethoxy-3,4-dihydro-1H-isoquinolin-2-yl)-ethyl]-phenyl}2H-tetrazol-5-yl)-4,5-dimethoxy-phenyl]-3-quinolin-3-yl-acrylamide; and
4-oxo-4H-chromene-2-carboxylic acid (2-{2-[4-(2-{[2-(3,4-dimethoxy-phenyl)-ethyl]-phenyl]-2H-tetrazol-5-yl}-4,5-dimethoxy-phenyl)-amide.

4. (currently amended): A process for preparing a compound of formula (I), which comprises the steps of:

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(i) cyclizing a compound of formula (V) with a compound of formula (VI) in the presence of a base to obtain a compound of formula (IV);

- (ii) hydrogenating the compound of formula (IV) in the presence of a catalyst to obtain a compound of formula (II); and
- (iii) acylating the compound of formula (II) with a compound of formula (III) in the presence of a base or a condensing agent to give the compound of formula (I):

$$R_{3}$$
 R_{2}
 N_{2}
 N_{3}
 N_{4}
 N_{5}
 N_{1}
 N_{2}
 N_{1}
 N_{2}
 N_{3}
 N_{4}
 N_{5}
 N_{5}
 N_{6}
 N_{1}
 N_{1}
 N_{1}
 N_{1}
 N_{1}
 N_{1}
 N_{1}
 N_{2}
 N_{3}
 N_{4}
 N_{5}
 N_{5}
 N_{5}
 N_{6}
 N_{1}
 N_{1}
 N_{1}
 N_{1}
 N_{1}
 N_{2}
 N_{3}
 N_{4}
 N_{5}
 N_{5

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$$R_4$$
 R_5
 N
 N
 SO_2 -L
 R_3
 R_2
 (V)

$$R_7$$
 R_8 R_{11} R_{10} R_{10} R_{11} R_{10} R_{10}

wherein,

 R_1 , R_2 , R_3 , R_4 , R_5 , R_6 , R_7 , R_8 , R_9 , R_{10} , R_{11} , m, n and X have the same meanings as defined in claim 1; R_1 is aryl, heteroaryl, acrylaryl, acrylaryl, heteroaryl, heterocycloalkenyl, or carbocyclo, which is optionally substituted with one or more substituents selected from the group consisting of $C_{1.5}$ alkyl, hydroxy, $C_{1.5}$ alkoxy, halogen, trifluoromethyl, nitro and amino;

 R_2 , R_3 , R_4 , R_5 , R_6 , R_7 , R_8 , R_9 , R_{10} and R_{11} are each independently hydrogen, hydroxy, halogen, nitro, $C_{1.5}$ alkyl or alkoxy, R_6 and R_{11} being optionally fused together to form a 4 to 8-membered ring;

m and n are each independently an integer ranging from 0 to 4;

X is CH_2 , O or S;

R' is OH, Cl or Br; and

L is benzyl or tolyl.

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5. (Original) The process of claim 4, wherein the compound of formula (V) is prepared by reacting a compound of formula (VII) with toluenesulfonyl chloride or benzenesulfonyl chloride:

$$R_4$$
 R_5
 R_4
 R_3
 R_2
 R_3
 R_4
 R_3
 R_4
 R_5
 R_7
 R_7

$$R_4$$
 R_5
 NO_2
 R_2
 (VII)

wherein,

 R_2 , R_3 , R_4 , R_5 and L have the meanings as defined in claim 4.

6. (Original) The process of claim 4, wherein the compound of formula (VI) is prepared by reacting a compound of formula (X) with a compound of formula (XI) in the presence of a base, to obtain a compound of formula (IX); hydrogenating the compound of formula (IX) in the presence of a catalyst, to obtain a compound of formula (VIII); and reacting the compound of formula (VIII) with sodium nitrite and HCl:

$$-CI^{+}N_{2}$$
 $-X-(CH_{2})_{m}N-(CH_{2})_{n}$ $-R_{9}$ $-R_{11}$ $-R_{10}$ $-(VI)$

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$$O_2N$$
 X $(CH_2)_m$ R'' (X)
 R_7 R_8
 HN $(CH_2)_n$ R_9 R_6 R_{44} R_{45} R_{45}

wherein,

 R_6 , R_7 , R_8 , R_9 , R_{10} , R_{11} , m, n and X have the same meanings as defined in claim 4; and

R" is OH, Cl or Br.

7. (Original) A pharmaceutical composition for inhibiting the activity of p-glycoprotein comprising a compound of formula (I) or a pharmaceutically acceptable salt thereof as an active ingredient, together with a pharmaceutically acceptable carrier:

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wherein,

 R_1 is aryl, heteroaryl, acrylaryl, acrylheteroaryl, heterocycloalkenyl, or carbocyclo, which is optionally substituted with one or more substituents selected from the group consisting of C_{1-5} alkyl, hydroxy, C_{1-5} alkoxy, halogen, trifluoromethyl, nitro and amino;

 R_2 , R_3 , R_4 , R_5 , R_6 , R_7 , R_8 , R_9 , R_{10} and R_{11} are each independently hydrogen, hydroxy, halogen, nitro, C_{1-5} alkyl or alkoxy, R_6 and R_{11} being optionally fused together to form a 4 to 8-membered ring;

m and n are each independently an integer ranging from 0 to 4; and X is CH₂, O or S.

- 8. (Original) The composition of claim 7, which further comprises an anticancer agent.
- 9. (Original) The composition of claim 8, wherein the anticancer agent is selected from the group consisting of paclitaxel, docetaxel, vincristine, vinblastine, vinorelbin, daunomycin, doxorubicin, topotecan, irinotecan, actinomycin and etopocid.